# VIATION MAY 7, 1951 WEEK \$6.00 A YEAR A MCGRAW-HILL PUBLICATION



# Next-COMPLETELY Automatic Flight!

That's the exciting possibility that will open up for the future after a B-50 crew tests Honeywell's new Automatic Master Sequence Selector.

This device, being researched and developed by Honeywell engineers and the Ail Weather Flying Division of the Air Materiel Command, is designed to make flying easier. Plans are to guide the Boeing Superfortress automatically - from take-off to landing - over any preselected course.

Holes punched in a roll of tape will dictate the complete flight plan. This roll of tape - something like a player piano roll - will "mastermind" the Selector.

For civilian and military aircraft, this latest product of Honeywell research and ingenuity may well mean greater utilization of aircraft—through elimination of human error. Each day this becomes more and more important - as instrument panels and air traffic problems grow more complicated.

Development of the Automatic Master Sequence Selector represents just one of the many aircraft control problems being researched and solved by Honeywell engineers. We expect to be given many others in the years to come - because automatic control is such an important part of aviation progress. And automatic control is Honeywell's business.

AERONAUTICAL DIVISION MINNEAPOLIS-HONEYWELL + MINNEAPOLIS 13, MINN,

# Honeywoll



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IN MADIO NAVIGATION, IT'S . . .

COLLINS RADIO COMPANY, Coder Repids, Iowa



# B.F.Goodrich





# New brake block saves weight, improves braking, lasts longer

A NEW KIND of bolte bliefs he
A been developed by B P Good
reb It is now an use in the IEP.
Expender Tible boltes in the pitch
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American B-0. Beengla B IV in
Connect B-96
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in assessed onto a special magnetime.

Goodwalt connect.

Effectioning of the rivers makes in possible to use more of the broke fee

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The beste BFG expander rules design often sold other advantages. Less weight for a given amount of kinese energy than any other bride. Ability as not sentengency overlands bester Noticelang as guideng Quadar, easier ensistenance. Langua the For-help with your bride problems cell are B. P. Goodwin engagemag dell. The B. F. Garlenbergeng demounted Drivins, deller Gibt.

B.F. Goodri

# AIRCRAFT CONTROLS



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A Rocking's Boss Com-

# Aviation Week

Mery 7, 1951 Headline News Borsh on USAF Bulget Loom. Third Supplemental Budget B & D Parton Taking Form AIA Finds Engineers Improving AIB Engineer Engineering Sweet Books Care Toronter Cont. 6 Lesigment New Lab Green Counts Speedpoles . 48 for Total Flore Numerate Mitteller Said For An An French View. Our at the Said, has an Treathle. to Changes on Swittl Phones. used Care CAB Newhole Pulley. NSS Develops Total Reage Receiver ... A

Noteballer Karlengton Emarley William Pierre Sold Where lodgery Gherrer Medic H. Makel .... MANAGES REPORT William Kruper ... Assess Surgay Stine Kudarum Labourn G. L. Christon, III Streems & Manness Erwig L Eulien David A. Andreas Subsetts Thomas M. Add.

Editional Officer, 19: New Stand St., New York 15, N. Y., Phone Longson 43055 Natural Press Blds., Variance 4, D. C., Phone National Add. Symmetric Nove Streemer, Arkense J., Bhader-Harmery Ship, , Chemps 11, 120 N. Mariel Son, Army Claredond S., Sinone Shing, Driven Str., Perchante Shing, See Angeles IV.
110 Whitesen Shing, See Premiones, Ad Over St., Horsen, 148 South St., Carrespond. Forcers News Electron: London, Paris, Devoluter, Taken, Howley, McRauser, No. de

8. W. Never, Jr., Seier Nussper; J. G. Johnson, Paristra Manager, Asian Souffe, Association Radiating Sales Representations Jr. C. Andrew, New York: M. J. Sern, Philadelphin, H. F. Johnson, Checkend, J. J. Hatt, Cheyan, V. E. Bernardi, N. Liese, Josep Carlo, Belliny R. C. Steikhir, Adams: J. W. Othorie, Son Francisco, C. P. McKepathi, Lie Angele Other sales office in Principal, Party, Reiten, Leider. Published and the Medican Str. Decision of Systems Res., Section 5, New York, Str. Medican Str. Section 5, New York, Str.

Separation of Street Sections in Market will address of Arthur S. H. Market E. Market S. Market 

What's doing at JACK+HEINTZ

# Voltage Regulators Feature Frictionless Operation



MODELS PEADY

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don't get in the way commed to take naturate and responsibility. They fallow projects through pilot production. This ross-

pennind, Vallage regulation o man-Other features of both models incompensation, rangedness to withstand extrane ethorism and a bighforce receiptor exerced that receipts use of a high resistance eaches side

and facility it are at your needen o quocker, pass working procetypes in More than 400 models among J&H Retemptives

Starting with a production of only war. Lock & Hemin now offers more 40 sengere operations performed an-

In addition to story or expensions IAH reserve systems and countries rea-

Chief Engineer's Corner Name enchop-pile cognitions work such heat soft recorders, investors the wat them Monde, he taking

a three his The GR 22 and GR 50. are used revolution. We don't know of one better that even they will sandah developed that are more to see





CARDED IN MICHAEL but been in experience over the Mr. and or the man who put believes to be easy. For commercial operation. His Lim Angular Alexandr was granted the first CAS condition for scheduler believes to consecuted motion and his review of the condition for scheduler for the condition of the process of the process of the condition of the condit

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### 600% longer bearing life for world's first HELICOPTER MAIL SERVICE

"Inhelication with TEXACO REGAL STARFAR SPECIAL has increased the life of flagging link hinge beerings from 200 to 1,200 hours-equipm greater safety and saving our company real money."

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#### NEWS DIGEST

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C. Snurt as Assetant Security of the Air Force Glostric n a New York CAR, has been appropriate a member of NAGA by Present Transa, succeed-

Cubes sides DC4 us bit by the those of Key West, Fig. killing 79 Navy trainer, which was on a blind Compania Cubras de Aviatros, a The American World Aircram of State

Mai Gop, Denald Part has been named Assistant Deputy Chief of Stoff, Development, USAF Develor is May Geo. Garden P. Saulle Bur Geo. Donald N. Yato takes over the post of Downtor of USAF Research and Do United Arr Laser' DC-3 couled not

Legelaton aurealing the prototype testing bill to outhorne 55 million for development of a local service plane as being pushed by Sea. Friend Johnson and Sen. Owen Benester. file Four and sate his been true

necessary and her a CAR above course codes les 1, 1951. Four names affected on

Republic Aviation Corp. reported a net stronge of \$484.754 for the fire New York State Insuches to: Sales for the neural near \$12,417,700. East ANADION WITE May 7, 1911

Nucleast Asians country my run dennt the first quarter of 1951

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# Meter Driven CONTROL STICK



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#### SIDELIGHTS

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one in 40% M. in 75C. AMC is establishing a 7000 man supply depot at Chatesanta, Facure, 150 males from Free

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#### Washington Roundup

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politics states for defense of Pacific Whate stee

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There's percent aproprient on Created Hell that U.S. Air Force: The Major Arm?

Under the Trausa budget, USAF tolls only \$1 bit. has short of motoleag the Arms, measures. The

money would be divided smern the services Assay, 120 S. Jellines, Acr. France, 519 J. Juliuse, Navy, 515 J. • The Festiga Beleficos and Acmed Services Convent For this fixed year, USAF is over 53 hillien below bas PKAY, \$159 billion, New 5124 billion

Army Aircraft Area's second propagation program will take a new

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President's securit for arthority to boild deligate buter will be word. Where backgrains Brook The Southern Demonstra-Republican bloc # major solina provinges, private industry is ready to make all

New Public Relations Wheney's thought as that USAF could not the SIS As Force has the regulation serious reporter for continue, segment, and agreenment in promoting Fas. oddly it was the Navy-which has shown lettle policy of the Defense Department," the Senate's reporremine many since the Bulk construction of personnel the the triedy parameter, means one the other his should from the three services comply higgsy-or unknow. What we need for defense of the country is a lag or force

USAF or Army, both of whom quentum for burner PK were party, consumed with Assessmenton Committee pembers that New's public editions activities marks "Who do you have to work all this money on informatters officers and subtle relations officers, and perceit while attrategy at Branches six offensive in the exect of that tops?" Tous Rep Gonge Malon quested Shows a rebot. I thank there is a great field for near the milds eletion or metalled by the comb-

who raile the decision, and so pecu relations officer

There's a cleavest in the croks of Scotte air power · Interestage distressed to See, Henry Cohet Lodge, when fiver moves researd as all out effort to hold Europe a Indifferent American and as New Yorkest Talk and Wherey wast to so officed by student as

Langer ask decide Dr. H. J. E. Red was honored for their news at server with NACA ANATION WITE, May 7, 1951 ANIATION WEIK May 7, 7885



#### IN THE NEWS TURBOPROPS

tupe pepreft powerplant in the country. delivery more than 2000 horsesoner in addition to an underload report of G-E's Aircroft Gas Testone Divisions, and Virg Weaver, is shares of the Schoolman

The years are, in July, 1941, G.E engineers started work on a new from according preventing) - say suppliers and during during a secondar. The way the 76-190, the first tradegree up the General Electric engineers today are experimenting with the Tarbofree, a Northree development, Akbregh livror thea

Nov and improved partnersp express are us the books at will conclor be living one strengt to new most and new When you've considering powerplants call in the company Coreni flectric printen specialist, or serie General Lintere



Convert XP-CI, First Indicessar-powered pictors in the Design engineers Also Haward and C. J. Wieker, several in U.S., powered by TG-100, first American harbourse, on early TG-199 techoprop on limit sheed in Submanifolds

AIRCRAFT GAS TURBINES

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#### WHO'S WHERE INDUSTRY ORSERVER

In the Front Office Midester S. Markey, a carroller of North.

William J. Carry has been made a very wording of the BG City, N Y, and Atter Colleman him bern named was nesident and secretary Carry round BG process and HERRIEY CARTY (1980) BG in 1939; coming from Bardeld Entire & Halon & Buder has become executive voe provident in charge of various arration

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I L. Wider has been moved an painteen was product of TWA. Willer percently

#### Changes Robert R. Miller, preynody mented to

agus of Scode Avence, and Arthur B. Gittalaus has been appeared manager of

ANATICS WILL NO. 7, 1951

P. New Albertin servicebourses believed to which a contrast was e-saded acceptly will have appropriately the appropriate or a DC-1. and will have two Posts & Whateev R 2000 engines as powerplants. The markets is expectedly the nettest Shooky amount but to a tenders rates.

\* Dougle upon cathesian about verythin-blode lightspeed supersons

roton for believers, more conservative engineering restress at Bell Avends note a fewerer on at 18hole decient with a thickness ratio of newed II second an about at this is can be used without second power longs which would be macorphible in themselves, over assuming that structural and high news level problems could be heled. This does not one the mobiles of allow rates for connectations, which field to

concernie enterior with both trees of beson cost in Kines Man singed; with belongings (Assessor Willia Aug 10, 1956). ▶ The Panerki XHIP,1 systems of the HUP3 shadourd New traders.

coates has attended off its extra firm as a small of the success of its Sport agraphet experimental fights which culculated in the crosscountry authorizated fight from the place at Martin, Pa. to Anacodia Novel Air Staffage heat work. As long as the autopilot is in washing order. the extra stabilizing effect of the few men't needed, and even if the pilot port and, there is enough stability without the fire for ordinary neamarried married much bedraule bases. A faith bears atick force about the pale publics, in manuel field Production HEW-Is and the will be supplied to the Novy with autopalets and without the fire-\* Anny convertagions enthusants have discussed with some engreens the

► Asser tectscore consider a believater of second 5-ton perion3-coughly the con of the Popolis XIII. ( but the west reacted our by their months. wents for manables tenous in forward cours. It is probable that new perduction vegores; of the XH-16 well go to higher powered markets to carry heaver look. Yeshine engines, possible such so the Affect T-35, ser a

· Shorky leads in the number of new big behoopers produced, with approximately 20 of the model \$45 m its various military versions Makes Come emerges with believator operations at the HMX.)

coerdical time for the lat arrest months indicator as approach riks in counting time with experience. For total is low compared to toodusing operations. Average number of flight hours per helicopter, executing an average of seven models of these types, elimbed from 12 hr. a month last Aways to 59 ht. in February

#### AVIATION WEEK YOU SE NO 18 MAY 7, 1951

# Revolt on USAF Budget Looms in Senate

#### Funds too low for 95 groups, vet

drive is for 175 By Katherine Johnson

Research . The Toward badogt allows USAF . Thetgal sin U.S. toffert Thom a very 579.5 billion. A build up to an effective ation one were 175 downer the fanned, would repose \$24.1 billion. The budget softens plans for a set a termination adventige to ground \$4474 million available for its ay activo - nit superposity This picture 18,000 plants ties, et. supersonately \$500 million represed in 240 groups if the U.S. Proton Lodged-The first company, or ment supply 48 months

Culting for the 175-peop build-up,

colons the State that are the hardware and \$75 belless level of your of the man with "idject bush mored bushes like the Racong B ST and the cal yest budget which could audicate a all ict services of the B to and at the substant on a still relative peoples. county have medicated from our being that would make extraorder trees and a Research and Andrewson and be

# What the Military Plans to Spend

(Selected expenditures in entitions of dollars) Basic lot & Ind Supe. Represent ARE FORCE Research NAVAL AVIATION

The structs will have to someon Of he'hon ender a \$66 he'hon culture national energency is and Describer, the Joint Chiefs at Staff approved an billion '52 badoot will over the resistance nest complete at least 6600 arcenit to more the community 192 groups, bebody, the "emergency" peopless.

\*Place purchasing will be conservaperceived the se 7 billion USAF will Air Fetor would space the build-up . Guided missiles. Buth USAF and dured USAF is extracted \$130 cml

bedget will affect probbed activities of

After a 524.1-billion accepte utton fin-20 Juliana From a bankdom to 120 manuar 150 spece as 1954, and 556.7 billion sheady been put in operation. The ordion for Neval Air, commer with the 510 million USAF and the 529 million Third Supplemental: 'Austerity' Budget

> The message ranks the stress to holyer. How Autoristing Conmatter member Ben. Cerept Militara possibily served military witness

cused been for successing possessistart of the next fiscal year, July L.

Lind recovery collection a \$200 fellow engon, and the Graheru night ratrades at Gleon L. Mortin Co. No New Plant Funds -No funds at Source of States-Meanwhite, to It adds up to a slow-down in plane and other med 1952 ford one hands

ESAF's Pedrogreeter John M. contraction And, if additional mercan-

AVIATION WEEK, May 7, 1957

ment money is not promptly cards available them, "It will be necessary to seek Boder's former shief, then Man-Pode removed "basker exchange" to concerning our family closed by the the Desertment of Delegan had "sp. Propident and and to Common

#### R&D Pattern Taking Form

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· Expension of system facilities, 5756

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manch and descharaged actuates al mend begind by Mm. Gen David Selection of a permanent headquar not for the new recurrentials, pophish next step on subdiving the commen ton But a republic newton of the sa

worth and charlesment activities will which they were fermedy attached dyeson of AMC, will herd the our ment First of ARDC. In compounts ARDC exclude the avenues center at bowers inhouston at Cambridge, Mare may AFR, and the flight asserach as

Expected to be suspend to ARDC in Center, Tellahoma, Tenn, Special Wespers Communel, Ketherl AFR orat Torbus Centrs at Figlin Flints. quests for dentile connecty in the re-It is entranged that assemblestate 1600 senote will be statemed at the pensistent ARDC hashparten when that a housed, and that equility 200 revenuent. The races are a med at of these will be drawn from AMC are

#### USAF Activating military accesses and Lene costs at a 19 Guard Units From raid-famous to and March.

oxestration "leastred" artitles to suffice the cost case months. This no? struction communics and three com-



soring sed membranes conference now S. E. Stat. (EAL).



(AAA), R. K. Hotze (TWA) and F. G. Bossett (PAA). Other

Report of progress in solution of earlier problems heard at 1957 envincering and maintenance meeting

By George L. Christian Change & Southern Air Lines . Hebrahits-To once with shed by considered choose in 1947 and 1950 wireking personnes of 7.5 to 1 states of all minimum the number of "Cf" days or whose conflicte gard court on six • General Ecologyet-The his money confidence in its ability

an nichte's trouble child on non wall control in hormon of the "other thought The trend is towards pit, rather than · Farmen Constraint Assessment on uncounful notions, established at the velved around oil chapes persons add difficulties discussed these tes topics Holouist & Versen Systems Ground by coducting of the E-Coll or now in With one possible expension, no de-

effective research and development recipions designed to obtain more pr

Officials at the realescence, which

ATA Group Finds Equipment Improving

· Intiffere-Appropriated interest on on Start and 77 DC-1; to a northble Low fermon reaction reduces must operate systems among rathers that red and white cocket lighting is the best your white on black elementer in . Fuel Systems-Eq question larger on AC and AN fellings. The military does not want manufactures to make both over to request 200 revived to AN 40 teen This they consider reedy and

proportions. Plan is to carry their view Hydraulie & Vacuum Systems Padary of steel and sheal reducer permise peaks of up to 6000 per, empdirector the problem of designing a

Eastern As Lines, appear others, has reserved to the contribution of 175mm der" tohing in selficel source such as no. Am. 24. 25 and 26, elected in the . Electronic findensing-Associated. Ex-1952 chairman R. L. (Dee) Anderson. do. Inc. has established an inspectant

Desgles experience shows great to conflor to sellines error il hydroulic hoc replacement every 5-9000 P. Take Toubles-Engineer arrest Fighter in Codes-There was more Problem is to ortobial and easily counts of "O" one twelve, PAA is

Danelia stated relative to the DC 6 ran to specification AMS 4306. In adstellations to service come this tables TWA NWA and UAL spoke well of trouble with cruckous at hends at-

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unstee life for high passage femble best Revenued for readition" men-

EAL and CAF get two engage rann

240 Brand has 4000 by on a test testification on a DC-6 and on a said · Carleson montal confine orely Dowler and on objection to comflexible hore for emergency remire, pronodes necessar. Lookkeed confers in UAL and EAL are today the perce Dought comment one of its military

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900 he on the large 1000 or wait

Safety Record

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and most strategies operation to

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Some failures possibly our day to up bulence, so Perce has set up a belancing enumer should be creekle of disassouble TAL is developing its com-EAL supported that second voruse In place such at 350 day E-

Finder-Easters is placeing to test the

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peneted out that on hydratic seasons

Goodycar profested that problems proted scend one gen. UAL radio cutof that DC-6 brake he is no accentticking belts used on the Books 377

. Pressure medium land at non-

HANDS ON Fresk N. Freede, Job, and Lt. Confr. Vance W. Affer mort William H.

Coller and Ed Vanderlin, Finnels company pilots who "flow" the HLT postetype on auto-

# AHS Examines Helicopter Future

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Conserved servers of sellbers

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Copter Officers Borton D. Edley, chief conof Prayers Heliconter Com-Other Alts officers Meason

Gracust Belling, Los Angeles Ac-

cooter direct cost 50 percent higher

tion that exceed and abbent such of Fitting Compares Waldo saids a

transportation, burses, today and union unce, infety or other majors drivers the necessary public acceptance for each Sweds up to 130 knots (150 croh.) lough Stant III, told the forces thus helicopter blades, down to 4 per

miched. Decreased lifting capacity of retack at higher forward speeds even twile wakes them improposal as the sole lifting meson, after which some

without believed in the future will be tacked on, once they have impded support planes to cover front and finely and from few, they will amount Advantages of rotary syste alalers arrest incount bring foliate He very developed by few flexions. Karnin



perton accordage. He called for more Extension of the CI edgestives tow Bet Congres soms reckered to son common service his of the components. so 1000 nemonst instrumentary of the sympa nus that have been ende evaluate to Catcheon, Morane Cago, Andread Reporting on experience in Kneer, new down to about \$1000 a gweeth. At Col. McCorolana and that the burry

Air Force Academy Site Study Continues Face Academy alta reletive based cal Cad Speats, has minowed to seven

A big processe on business for fight haldstan a med. It would entherwo

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which no survey is necessary.

#### New Gunsight Sees

First Combat Use policy ganaged has been suncemend

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frotal crost for developing the

**HSAF Set to Choose** 

# Air Freight Winner wages by Max 15 from the new are

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### Our Expanding Industry . . .

meet which will employ 9000

pleas to sacual Set; or ellion than new

Julia Springs, Cold., Aspect Min-Chalesen Mitz Co. received production program Alls Chal-rics order for commercion amount

Mater Care and health of the fire

Rotatelles, Inc., Tree, N. Y., in cent companies.

lead within a 1500 ft run many broken heer

#### Ford Motor Co. serversord re- building a new plant to recease do creek of an Ast Frace quatract for production of seconds criping

Feechful States dropes vill build a \$2 radice, 125,090 pg. ft.

Breedille Asiation Com. a. com out a hearth entirement office in

Collins Radio Co. soli heald a

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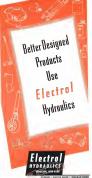
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#### Air Dividend-Earning Ratio High Disbursement per share, especially for aircraft, is renerally above the notional industrial average

during 1950. In fact, payments by six A completion by a statistical service shows that in 1930 all corporations mid about 42 percent of their supas normal as the past but have become hen common to the porture period.

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Tel 128 percent distribution of Wright a membra andertion of a distinal policy which is bargly inposition and past regited covered ments to stockholders Buch, which said 52 secret of its 1950 reported greatmen, has one of the to profetale cystics. During 1946, the company exhibited a country div idead equivalent to 15 cents a share on its persent stock. This was maincertain dictrict a shale reduction

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#### Boeing Names B-52 Project Engineers

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Assisting Curben as project engineer for the first \$12 readuction bombers is project engineer for the two expen-Robert Ludorft, Ebraid Report, Gra-

hacs Philips, Robert Localls, Al Sider guided mentic work at Boomy Serving as group engineers under Terdina-Nicholb, Walt Lund, Harold Brown, Richard Siffs, John Meers, W. H. Schlouder, Robert Schuckle, Elbet Nubals, Chules Benerman, Gerham

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#### Mail Pay: An Air Freight View

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#### EDITORIAL

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#### New Turbo-Jet Leads with Greatly Increased Power and Fuel Economy

O NCE more Allison makes a major contribution to that excels in power—a new Super-Jet aircraft engine that excels in power and fuel economy any other jet engine ever released for production.

It's the new J35.4-23 developed in cooperation with the Air Materiel Command—a completely new design—yet retaining the same basic diameter of the famed J35 series. This new engine develops more power per square foot of frontal area than any other jet yet produced. Four of these new engines will be installed in the YB-4TC Benig Strato-Jet. They will produce more power than the six jet engines now used in previous models of the B44 series.

This JS5.A-23 now has been selected by the Air Force—in open competition—for a recordsize production contract. Behind this latest award is Allison's unequaled experience in the design and production of more than 10,000 jet engines with total time in the air of over 700,000 hours. This accents the length and breadth of Allison jet engine experience where it counts most—in the air. Many of these flight hours have been accumulated in Korea powering U.S. fighters for support of ground troops and keeping the skies clear of enemy opposition.

Production will continue at Allison on those combat proved types of jet engines in addition to the new J35-A-23 Super-Jet and the new T40 Turbo-Prop engines.

The record production order for the new Allison engineered Super-Jet will be met through the combined facilities of Allison and the Chevrolet Motor Division which



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